

ABSTRACT

A read-only data storage and retrieval device is presented having no moving parts and requiring very low power. Addressing can be accomplished sequentially where the address increments automatically or can be accomplished randomly. High density storage is achieved through the use of a highly symmetric diode matrix that is addressed in both coordinate directions; its symmetry makes the Dual-addressed Rectifier Storage (DRS) Array very [scaleable]scalable, particularly when made as an integrated circuit. For even greater storage flexibility, multiple digital rectifier storage arrays can be incorporated into the device, one or more of which can be made removable and interchangeable.